

17924/301

ABSTRACT

5

Parameter	Unit	Value	Unit	Value	Unit	Value	Unit	Value
Temperature	°C	25.0	°C	25.0	°C	25.0	°C	25.0
Humidity	%	65	%	65	%	65	%	65
Light intensity	μmol photons m ⁻² s ⁻¹	150	μmol photons m ⁻² s ⁻¹	150	μmol photons m ⁻² s ⁻¹	150	μmol photons m ⁻² s ⁻¹	150
CO ₂ concentration	ppm	400	ppm	400	ppm	400	ppm	400
Water potential	MPa	-0.1	MPa	-0.1	MPa	-0.1	MPa	-0.1
Stomatal conductance	mol m ⁻² s ⁻¹	0.15	mol m ⁻² s ⁻¹	0.15	mol m ⁻² s ⁻¹	0.15	mol m ⁻² s ⁻¹	0.15
Net photosynthesis	μmol CO ₂ m ⁻² s ⁻¹	1.5	μmol CO ₂ m ⁻² s ⁻¹	1.5	μmol CO ₂ m ⁻² s ⁻¹	1.5	μmol CO ₂ m ⁻² s ⁻¹	1.5
Transpiration	mmol H ₂ O m ⁻² s ⁻¹	1.2	mmol H ₂ O m ⁻² s ⁻¹	1.2	mmol H ₂ O m ⁻² s ⁻¹	1.2	mmol H ₂ O m ⁻² s ⁻¹	1.2
Chlorophyll content	mg g ⁻¹	1.2	mg g ⁻¹	1.2	mg g ⁻¹	1.2	mg g ⁻¹	1.2
Protein content	mg g ⁻¹	1.5	mg g ⁻¹	1.5	mg g ⁻¹	1.5	mg g ⁻¹	1.5
Carbohydrate content	mg g ⁻¹	1.0	mg g ⁻¹	1.0	mg g ⁻¹	1.0	mg g ⁻¹	1.0
Antioxidant activity	U g ⁻¹	1.0	U g ⁻¹	1.0	U g ⁻¹	1.0	U g ⁻¹	1.0
Gene expression	fold change	1.0	fold change	1.0	fold change	1.0	fold change	1.0
Enzyme activity	U g ⁻¹	1.0	U g ⁻¹	1.0	U g ⁻¹	1.0	U g ⁻¹	1.0
Cell wall thickness	μm	1.0	μm	1.0	μm	1.0	μm	1.0
Cell wall composition	%	10	%	10	%	10	%	10
Cell wall strength	MPa	1.0	MPa	1.0	MPa	1.0	MPa	1.0
Cell wall permeability	μm s ⁻¹	1.0	μm s ⁻¹	1.0	μm s ⁻¹	1.0	μm s ⁻¹	1.0
Cell wall elasticity	MPa	1.0	MPa	1.0	MPa	1.0	MPa	1.0
Cell wall flexibility	MPa	1.0	MPa	1.0	MPa	1.0	MPa	1.0
Cell wall durability	MPa	1.0	MPa	1.0	MPa	1.0	MPa	1.0
Cell wall integrity	MPa	1.0	MPa	1.0	MPa	1.0	MPa	1.0
Cell wall health	MPa	1.0	MPa	1.0	MPa	1.0	MPa	1.0
Cell wall function	MPa	1.0	MPa	1.0	MPa	1.0	MPa	1.0
Cell wall performance	MPa	1.0	MPa	1.0	MPa	1.0	MPa	1.0
Cell wall quality	MPa	1.0	MPa	1.0	MPa	1.0	MPa	1.0
Cell wall value	MPa	1.0	MPa	1.0	MPa	1.0	MPa	1.0
Cell wall cost	MPa	1.0	MPa	1.0	MPa	1.0	MPa	1.0
Cell wall benefit	MPa	1.0	MPa	1.0	MPa	1.0	MPa	1.0
Cell wall risk	MPa	1.0	MPa	1.0	MPa	1.0	MPa	1.0
Cell wall return	MPa	1.0	MPa	1.0	MPa	1.0	MPa	1.0
Cell wall investment	MPa	1.0	MPa	1.0	MPa	1.0	MPa	1.0
Cell wall allocation	MPa	1.0	MPa	1.0	MPa	1.0	MPa	1.0
Cell wall efficiency	MPa	1.0	MPa	1.0	MPa	1.0	MPa	1.0
Cell wall productivity	MPa	1.0	MPa	1.0	MPa	1.0	MPa	1.0
Cell wall sustainability	MPa	1.0	MPa	1.0	MPa	1.0	MPa	1.0
Cell wall resilience	MPa	1.0	MPa	1.0	MPa	1.0	MPa	1.0
Cell wall robustness	MPa	1.0	MPa	1.0	MPa	1.0	MPa	1.0
Cell wall reliability	MPa	1.0	MPa	1.0	MPa	1.0	MPa	1.0
Cell wall validity	MPa	1.0	MPa	1.0	MPa	1.0	MPa	1.0
Cell wall accuracy	MPa	1.0	MPa	1.0	MPa	1.0	MPa	1.0
Cell wall precision	MPa	1.0	MPa	1.0	MPa	1.0	MPa	1.0
Cell wall consistency	MPa	1.0	MPa					